

CLAIMS

1. (Currently amended) A method of producing a composite magnetic body, comprising the steps of:

preparing flat soft magnetic powder;

subjecting said flat soft magnetic powder to annealing to be free from stress strain;

mixing, after the annealing step, said flat soft magnetic powder with a binder and a solvent ~~for dissolving~~ suitable for processing said binder, the mixing step producing a slurry-like mixture;

forming said slurry-like mixture into a film; and

removing said solvent from said film to produce a sheet of said composite ~~magneite~~ magnetic body.

Claims 2-16 (Cancelled)

17. (New) A method of producing a planar composite magnetic body, comprising the steps of:

preparing flat soft magnetic powder;

subjecting said flat soft magnetic powder to annealing to be free from strain of said flat soft magnetic powder;

mixing, after the annealing step, said flat soft magnetic powder, a binder, and a solvent, said solvent suitable for further processing said binder, to produce a slurry-like mixture;

forming said slurry-like mixture into a film; and

removing said solvent from said film to produce said planar composite magnetic body,

wherein said binder is chlorinated polyethylene.

18. (New) A method as claimed in claim 17, wherein said flat soft magnetic powder is subjected to surface treatment by the use of a coupling agent.

19. (New) A method as claimed in claim 17, further comprising the steps of layering and pressing a plurality of said planar composite magnetic bodies to form an integral structure without inducing stress strain in said powder.

20. (New) A method as claimed in claim 17, further comprising the step of pressing said planar composite magnetic body in a direction perpendicular to the plane without inducing stress strain in said powder.

21. (New) A method of producing a composite magnetic body, comprising the steps of:

preparing flat soft magnetic powder;

subjecting said flat soft magnetic powder to annealing to be free from strain of said flat soft magnetic powder;

mixing, after the subjecting step, said flat soft magnetic powder, a binder, and a solvent suitable for dissolving said binder, the mixing step producing a slurry-like mixture;

forming said slurry-like mixture into a film;

removing said solvent from said film to produce said composite magnetic body in the form of a sheet, and

pressing said sheet in a direction perpendicular to a plane of said sheet without inducing stress strain in said powder.

22. (New) A method as claimed in claim 21, wherein said flat soft magnetic powder is subjected to surface treatment by the use of a coupling agent.

23. (New) A method as claimed in claim 21, further comprising the steps of layering and pressing a plurality of said sheets to form an integral structure without inducing stress strain in said powder.

24. (New) A method as claimed in claim 21, wherein said sheet is pressed, without inducing stress strain in said powder, by the use of at least one of a hot press, a rolling mill comprising a plurality of rolls between which said sheet is pressed, a rolling mill comprising an endless belt and a roll between which said sheet is pressed, and a rolling mill comprising a plurality of endless belts between which said sheet is pressed.

25. (New) A method as claimed in claim 21, wherein said sheet is pressed, without inducing stress strain in said powder, by the use of a rolling mill comprising a plurality of rolls between which said sheet is pressed, at least one of said rolls being one of a surface-deformable roll having a surface subjected to resin coating and a surface-deformable roll made of one of a rubber and a macromolecular material having a rubber hardness of 90 or more and having a surface portion elastically deformable.

26. (New) A method as claimed in claim 21, wherein said sheet is pressed, without inducing stress strain in said powder, by the use of a rolling mill comprising a plurality of rolls between which said sheet is pressed, at least one of said rolls having a surface portion elastically deformable.

27. (New) A composite magnetic body produced by the method according to claim 1.

28. (New) A composite magnetic body produced by the method according to claim 17.

29. (New) A composite magnetic body produced by the method according to claim 21.

30. (New) A composite magnetic member, comprising:
a planar conductive material defining planar surfaces; and
two composite magnetic bodies, each of said bodies according to at least one of claim 27, claim 28, and claim 29, arranged on said planar surfaces.

31. (New) A composite magnetic member as claimed in claim 30, wherein each of said bodies is the product as claimed in claim 27.

32. (New) A composite magnetic member as claimed in claim 30, wherein each of said bodies is the product as claimed in claim 28.

33. (New) A composite magnetic member as claimed in claim 30, wherein each of said bodies is the product as claimed in claim 29.